

Sep 03, 2020

s/ Jeremy Heacox

Deputy Clerk, U.S. District Court  
Eastern District of Wisconsin

## UNITED STATES DISTRICT COURT

for the

Eastern District of Wisconsin

In the Matter of the Search of )

(Briefly describe the property to be searched  
or identify the person by name and address) )Information that is stored at premises )  
controlled by Google concerning 1815 63rd )  
St., Kenosha, WI )

Case No. 20-M-373 (SCD)

## WARRANT BY TELEPHONE OR OTHER RELIABLE ELECTRONIC MEANS

To: Any authorized law enforcement officer

An application by a federal law enforcement officer or an attorney for the government requests the search and seizure  
of the following person or property located in the \_\_\_\_\_ District of \_\_\_\_\_

(identify the person or describe the property to be searched and give its location):

See Attachment A

I find that the affidavit(s), or any recorded testimony, establish probable cause to search and seize the person or property  
described above, and that such search will reveal (identify the person or describe the property to be seized):

See Attachment B

YOU ARE COMMANDED to execute this warrant on or before 9-17-20 (not to exceed 14 days)

☐ in the daytime 6:00 a.m. to 10:00 p.m. ☒ at any time in the day or night because good cause has been established.Unless delayed notice is authorized below, you must give a copy of the warrant and a receipt for the property taken to the  
person from whom, or from whose premises, the property was taken, or leave the copy and receipt at the place where the  
property was taken.The officer executing this warrant, or an officer present during the execution of the warrant, must prepare an inventory  
as required by law and promptly return this warrant and inventory to Hon. Stephen C. Dries  
(United States Magistrate Judge)☐ Pursuant to 18 U.S.C. § 3103a(b), I find that immediate notification may have an adverse result listed in 18 U.S.C.  
§ 2705 (except for delay of trial), and authorize the officer executing this warrant to delay notice to the person who, or whose  
property, will be searched or seized (check the appropriate box)☐ for \_\_\_\_\_ days (not to exceed 30) ☐ until, the facts justifying, the later specific date of \_\_\_\_\_

Date and time issued: 9-3-20, 3:45 pm

Stephen C. Dries  
Judge's signature

City and state: Milwaukee, Wis

Hon. Stephen C. Dries, U.S. Magistrate Judge  
Printed name and title

**Return**

Case No.:

Date and time warrant executed:

Copy of warrant and inventory left with:

Inventory made in the presence of :

Inventory of the property taken and name(s) of any person(s) seized:

**Certification**

I declare under penalty of perjury that this inventory is correct and was returned along with the original warrant to the designated judge.

Date: \_\_\_\_\_

\_\_\_\_\_  
*Executing officer's signature*\_\_\_\_\_  
*Printed name and title*

## ATTACHMENT A

### **Property To Be Searched**

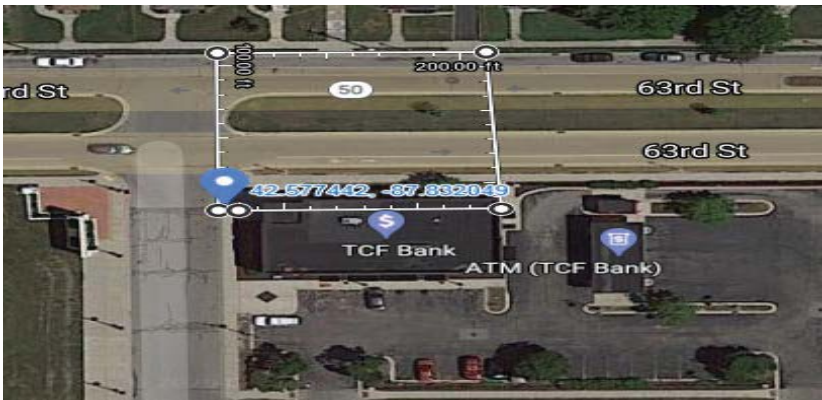
This warrant is directed to Google LLC and applies to:

- (1) Location History data, sourced from information including GPS data and information about visible wi-fi points and Bluetooth beacons transmitted from devices to Google, reflecting devices that Google calculated were or could have been (as indicated by margin of error, *i.e.*, “maps display radius”) located within the geographical region bounded by the latitudinal and longitudinal coordinates, dates, and times below (“Initial Search Parameters”); and
- (2) identifying information for Google Accounts associated with the responsive Location History data.

### Initial Search Parameters

- Date: August 25, 2020
- Time Period: 11:37 PM to 11:59 PM (CST)
- Target Location: Geographical area identified as:  
42.577441, -87.832047; 42.577747, -87.832045; 42.577747, -87.831655;  
42.577441, -87.831655

Also approximately depicted using the following image:



Google is further ordered to disclose the above information to the Government within 10 days of the issuance of this warrant.

## **ATTACHMENT B**

### **Particular Items to Be Seized**

#### **I. Information to be disclosed by Google**

The information described in Attachment A, via the following process:

1. Google shall query location history data based on the Initial Search Parameters specified in Attachment A. For each location point recorded within the Initial Search Parameters, and for each location point recorded outside the Initial Search Parameters where the margin of error (*i.e.*, “maps display radius”) would permit the device to be located within the Initial Search Parameters, Google shall produce to the government information specifying the corresponding unique device ID, timestamp, location coordinates, display radius, and data source, if available (the “Device List”).

2. The government shall review the Device List and identify to Google the devices about which it seeks to obtain Google account identifier and basic subscriber information. The government may, at its discretion, identify a subset of the devices.

3. Google shall disclose to the government identifying information, as defined in 18 U.S.C. § 2703(c)(2), for the Google Accounts associated with each device ID appearing on the Device List about which the government inquires.

#### **II. Information to Be Seized**

All information described above in Section I that constitutes evidence of violations of 18 U.S.C. § 844(i) (arson), involving unknown persons.

Sep 03, 2020

s/ Jeremy Heacox

Deputy Clerk, U.S. District Court  
Eastern District of Wisconsin

## UNITED STATES DISTRICT COURT

for the  
Eastern District of WisconsinIn the Matter of the Search of  
(Briefly describe the property to be searched  
or identify the person by name and address)

Case No. 20-M-373 (SCD)

Information that is stored at premises controlled by  
Google concerning 1815 63rd St., Kenosha, WI

## APPLICATION FOR A WARRANT BY TELEPHONE OR OTHER RELIABLE ELECTRONIC MEANS

I, a federal law enforcement officer or an attorney for the government, request a search warrant and state under penalty of perjury that I have reason to believe that on the following person or property (identify the person or describe the property to be searched and give its location):

See Attachment A

located in the \_\_\_\_\_ District of \_\_\_\_\_, there is now concealed (identify the person or describe the property to be seized):

See Attachment B

The basis for the search under Fed. R. Crim. P. 41(c) is (check one or more):

- ☒ evidence of a crime;
- ☐ contraband, fruits of crime, or other items illegally possessed;
- ☐ property designed for use, intended for use, or used in committing a crime;
- ☐ a person to be arrested or a person who is unlawfully restrained.

The search is related to a violation of:

Code Section  
Title 18, United States Code, Arson  
Section 844

Offense Description

The application is based on these facts:  
See the attached affidavit.

- ☒ Continued on the attached sheet.
- ☐ Delayed notice of \_\_\_\_\_ days (give exact ending date if more than 30 days: \_\_\_\_\_) is requested under 18 U.S.C. § 3103a, the basis of which is set forth on the attached sheet.

RYAN ARNOLD

Digitally signed by RYAN ARNOLD  
Date: 2020.09.03 11:29:09 -05'00'

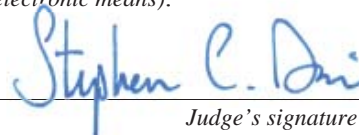
Applicant's signature

ATF SA Ryan Arnold

Printed name and title

Attested to by the applicant in accordance with the requirements of Fed. R. Crim. P. 4.1 by  
\_\_\_\_\_ telephone \_\_\_\_\_ (specify reliable electronic means).

Date: 9-3-20



Judge's signature

City and state: Milwaukee, Wis

Hon. Stephen C. Dries, U.S. Magistrate Judge

Printed name and title

IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF WISCONSIN

IN THE MATTER OF THE SEARCH OF  
INFORMATION THAT IS STORED AT  
PREMISES CONTROLLED BY GOOGLE  
CONCERNING 1815 63<sup>rd</sup> ST., KENOSHA,  
WI

**FILED UNDER SEAL**

Case No. 20-M-373 (SCD)

**AFFIDAVIT IN SUPPORT OF**  
**AN APPLICATION FOR A SEARCH WARRANT**

I, Ryan Arnold, being first duly sworn, hereby depose and state as follows:

**INTRODUCTION AND AGENT BACKGROUND**

1. I make this affidavit in support of an application for a warrant to search information that is stored at premises controlled by Google, an electronic communication service and remote computing service provider headquartered in Mountain View, California. The information to be searched is described in the following paragraphs and in Attachment A. This affidavit is made in support of an application for a warrant under 18 U.S.C. § 2703(c)(1)(A) to require Google to disclose to the government the information further described in Attachment B.I. The government will then review that information and seize the information that is further described in Attachment B.II.

2. I am a Special Agent with the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) and have been since April 2015. As an ATF Special Agent, I have participated in numerous investigations regarding the unlawful possession of firearms by convicted felons. I have also conducted investigations related to the unlawful use of firearms, firearms trafficking, drug trafficking, and arson. Prior to my employment with ATF, I was a Special Agent with the United States Secret Service (USSS) for nearly 5 years. My duties included providing and planning dignitary protection, drafting and executing Federal search

warrants, investigations of organized crime networks, investigations of threats against USSS protectees, fraud networks, counterfeit currency investigations, and other financial crime investigations. Previous to my tenure with the USSS, I served as a police officer with the Chicago, Illinois, Police Department (CPD). During part of my career as a CPD Officer, I was assigned to the Organized Crime Division-Gang Enforcement Unit. My responsibilities included the investigations of street gangs, narcotics distribution, firearms violations, robbery, home invasions, operating in an undercover capacity, and the authoring and execution of search warrants.

3. This affidavit is intended to show merely that there is sufficient probable cause for the requested warrant and does not set forth all of my knowledge about this matter.

4. Based on my training and experience and the facts as set forth in this affidavit, there is probable cause to believe that violations of 18 U.S.C. § 844(i) (arson) have been committed by unknown persons. There is also probable cause to search the information described in Attachment A for evidence of these crimes further described in Attachment B.

### **JURISDICTION**

5. This Court has jurisdiction to issue the requested warrant because it is “a court of competent jurisdiction” as defined by 18 U.S.C. § 2711. Specifically, the United States District Court for the Eastern District of Wisconsin is “a district court of the United States that has jurisdiction over the offense being investigated.” 18 U.S.C. § 2711(3)(A)(i).

### **BACKGROUND RELATING TO GOOGLE AND RELEVANT TECHNOLOGY**

6. Based on my training and experience, I know that cellular devices, such as mobile telephone(s), are wireless devices that enable their users to send or receive wire and/or electronic

communications using the networks provided by cellular service providers. Using cellular networks, users of many cellular devices can send and receive communications over the Internet.

7. I also know that many devices, including but not limited to cellular devices, have the ability to connect to wireless Internet (“wi-fi”) access points if the user enables wi-fi connectivity. These devices can, in such cases, enable their users to send or receive wire and/or electronic communications via the wi-fi network. A tablet such as an iPad is an example of a device that may not have cellular service but that could connect to the Internet via wi-fi. Wi-fi access points, such as those created through the use of a router and offered in places like homes, hotels, airports, and coffee shops, are identified by a service set identifier (“SSID”) that functions as the name of the wi-fi network. In general, devices with wi-fi capability routinely scan their environment to determine what wi-fi access points are within range and will display the names of networks within range under the device’s wi-fi settings.

8. Based on my training and experience, I also know that many devices, including many cellular and mobile devices, feature Bluetooth functionality. Bluetooth allows for short-range wireless connections between devices, such as between a device such as a cellular phone or tablet and Bluetooth-enabled headphones. Bluetooth uses radio waves to allow the devices to exchange information. When Bluetooth is enabled, a device routinely scans its environment to identify Bluetooth devices, which emit beacons that can be detected by devices within the Bluetooth device’s transmission range, to which it might connect.

9. Based on my training and experience, I also know that many cellular devices, such as mobile telephones, include global positioning system (“GPS”) technology. Using this technology, the device can determine its precise geographical coordinates. If permitted by the user, this information is often used by apps installed on a device as part of the apps’ operation.



10. Based on my training and experience, I know Google is a company that, among other things, offers an operating system (“OS”) for mobile devices, including cellular phones, known as Android. Nearly every device using the Android operating system has an associated Google account, and users are prompted to add a Google account when they first turn on a new Android device.

11. In addition, based on my training and experience, I know that Google offers numerous apps and online-based services, including messaging and calling (*e.g.*, Gmail, Hangouts, Duo, Voice), navigation (Maps), search engine (Google Search), and file creation, storage, and sharing (*e.g.*, Drive, Keep, Photos, and YouTube). Many of these services are accessible only to users who have signed in to their Google accounts. An individual can obtain a Google account by registering with Google, and the account identifier typically is in the form of a Gmail address (*e.g.*, example@gmail.com). Other services, such as Maps and YouTube, can be used with limited functionality without the user being signed in to a Google account.

12. Based on my training and experience, I also know Google offers an Internet browser known as Chrome that can be used on both computers and mobile devices. A user has the ability to sign-in to a Google account while using Chrome, which allows the user’s bookmarks, browsing history, and other settings to be uploaded to Google and then synced across the various devices on which the subscriber may use the Chrome browsing software, although Chrome can also be used without signing into a Google account. Chrome is not limited to mobile devices running the Android operating system and can also be installed and used on Apple devices and Windows computers, among others.

13. Based on my training and experience, I know that, in the context of mobile devices, Google’s cloud-based services can be accessed either via the device’s Internet browser

or via apps offered by Google that have been downloaded onto the device. Google apps exist for, and can be downloaded to, devices that do not run the Android operating system, such as Apple devices.

14. According to my training and experience, as well as open-source materials published by Google, I know that Google offers accountholders a service called “Location History,” which authorizes Google, when certain prerequisites are satisfied, to collect and retain a record of the locations where Google calculated a device to be based on information transmitted to Google by the device. That Location History is stored on Google servers, and it is associated with the Google account that is associated with the device. Each accountholder may view their Location History and may delete all or part of it at any time.

15. Based on my training and experience, I know that the location information collected by Google and stored within an account’s Location History is derived from sources including GPS data and information about the wi-fi access points and Bluetooth beacons within range of the device. Google uses this information to calculate the device’s estimated latitude and longitude, which varies in its accuracy depending on the source of the data. Google records the margin of error for its calculation as to the location of a device as a meter radius, referred to by Google as a “maps display radius,” for each latitude and longitude point.

16. Based on open-source materials published by Google and my training and experience, I know that Location History is not turned on by default. A Google accountholder must opt-in to Location History and must enable location reporting with respect to each specific device and application on which they use their Google account in order for that usage to be recorded in Location History. A Google accountholder can also prevent additional Location History records from being created at any time by turning off the Location History setting for

their Google account or by disabling location reporting for a particular device or Google application. When Location History is enabled, however, Google collects and retains location data for each device with Location Services enabled, associates it with the relevant Google account, and then uses this information for various purposes, including to tailor search results based on the user's location, to determine the user's location when Google Maps is used, and to provide location-based advertising. As noted above, the Google accountholder also has the ability to view and, if desired, delete some or all Location History entries at any time by logging into their Google account or by enabling auto-deletion of their Location History records older than a set number of months.

17. Location data, such as the location data in the possession of Google in the form of its users' Location Histories, can assist in a criminal investigation in various ways. As relevant here, I know based on my training and experience that Google has the ability to determine, based on location data collected and retained via the use of Google products as described above, devices that were likely in a particular geographic area during a particular time frame and to determine which Google account(s) those devices are associated with. Among other things, this information can indicate that a Google accountholder was near a given location at a time relevant to the criminal investigation by showing that his/her device reported being there.

18. Based on my training and experience, I know that when individuals register with Google for an account, Google asks subscribers to provide certain personal identifying information. Such information can include the subscriber's full name, physical address, telephone numbers and other identifiers, alternative email addresses, and, for paying subscribers, means and source of payment (including any credit or bank account number). In my training and experience, such information may constitute evidence of the crimes under investigation because

the information can be used to identify the account's user or users. Based on my training and my experience, I know that even if subscribers insert false information to conceal their identity, this information often provide clues to their identity, location, or illicit activities.

19. Based on my training and experience, I also know that Google typically retains and can provide certain transactional information about the creation and use of each account on its system. This information can include the date on which the account was created, the length of service, records of login (*i.e.*, session) times and durations, the types of service utilized, the status of the account (including whether the account is inactive or closed), the methods used to connect to the account (such as logging into the account via the provider's website), and other log files that reflect usage of the account. In addition, Google often has records of the Internet Protocol address ("IP address") used to register the account and the IP addresses associated with particular logins to the account. Because every device that connects to the Internet must use an IP address, IP address information can help to identify which computers or other devices were used to access the account.

### **PROBABLE CAUSE**

20. On August 23, 2020, Mr. Jacob Blake was shot multiple times by personnel of the Kenosha Police Department. That incident precipitated both non-violent protests and violent rioting, the latter of which included various arsons throughout the city of Kenosha, Wisconsin. The unrest and violence grew so dangerous that the Wisconsin National Guard eventually deployed over 1,000 individuals to the area, in an effort to keep the peace. Federal resources were also marshalled to investigate various crimes associated with these incidents, including arsons and looting. The ATF, for its part, deployed its National Response Team of 50 expert arson investigators to Kenosha, who are currently processing scenes, collecting video evidence,

and identifying potential subjects. The instant warrant application is made as part of that response effort.

21. TCF Bank, a financial services institution engaged in business that affects interstate commerce located at 1815 63<sup>rd</sup> Street in Kenosha, recently suffered an arson on the evening of August 24, 2020. As part of the investigation into that crime and related nearby arsons, law enforcement obtained and reviewed video surveillance of that incident.

22. That video shows, at approximately 11:32 PM, an item resembling a flare entering the TCF Bank from the north and landing inside the building, near a cubical divider. Shortly after, a second item resembling a flare enters from the north and lands just west of the first item. Approximately seven seconds after that, a white bottle enters from the north and lands near the first flare. Multiple individuals are observed near the TCF Bank's north window, during the time that these items are being throw into the bank. The items described in this paragraph were the source of the fire that damaged TCF Bank.

23. On August 30, 2020, law enforcement interviewed a citizen witness about the events of August 24, 2020, at the TCF Bank. This citizen described how they saw multiple individuals break the bank's north windows and throw flaming objects into the bank.

24. I submit that there is probable cause to search information that is currently in the possession of Google and that relates to the devices that reported being within the Target Location described in Attachment A during the time period described in Attachment A for evidence of the crimes under investigation. The information to be searched includes (1) identifiers of each device; (2) the location(s) reported by each device to Google and the associated timestamp; and (3) basic subscriber information for the Google account(s) associated with each device.

25. The proposed warrant sets forth a multi-step process whereby the government will obtain the information described above. Specifically, as described in Attachment B.I:

- a. Using Location History data, Google will identify those devices that it calculated were or could have been (based on the associated margin of error for the estimated latitude/longitude point) within the Target Location described in Attachment A during the time period described in Attachment A. For each device, Google will provide a anonymized identifier, known as a Reverse Location Obfuscation Identifier (“RLOI”), that Google creates and assigns to device for purposes of responding to this search warrant; Google will also provide each device’s location coordinates along with the associated timestamp(s), margin(s) of error for the coordinates (*i.e.*, “maps display radius”), and source(s) from which the location data was derived (*e.g.*, GPS, wi-fi, bluetooth), if available. Google will not, in this step, provide the Google account identifiers (*e.g.*, example@gmail.com) associated with the devices or basic subscriber information for those accounts to the government.
- b. The government will identify to Google the devices appearing on the list produced in step 1 for which it seeks the Google account identifier and basic subscriber information. The government may, at its discretion, identify a subset of the devices.
- c. Google will then disclose to the government the Google account identifier associated with the devices identified by the government, along with basic subscriber information for those accounts.

26. This process furthers efficiency and privacy by allowing for the possibility that the government, upon reviewing contextual information for all devices identified by Google, may be able to determine that one or more devices associated with a Google account (and the associated basic subscriber information) are likely to be of heightened evidentiary value and warrant further investigation before the records of other accounts in use in the area are disclosed to the government.

### **CONCLUSION**

27. Based on the foregoing, I request that the Court issue the proposed warrant, pursuant to 18 U.S.C. § 2703(c).

28. I further request that the Court direct Google to disclose to the government any information described in Section I of Attachment B that is within its possession, custody, or control. Because the warrant will be served on Google, who will then compile the requested records at a time convenient to it, reasonable cause exists to permit the execution of the requested warrant at any time in the day or night.

## ATTACHMENT A

### **Property To Be Searched**

This warrant is directed to Google LLC and applies to:

- (1) Location History data, sourced from information including GPS data and information about visible wi-fi points and Bluetooth beacons transmitted from devices to Google, reflecting devices that Google calculated were or could have been (as indicated by margin of error, *i.e.*, “maps display radius”) located within the geographical region bounded by the latitudinal and longitudinal coordinates, dates, and times below (“Initial Search Parameters”); and
- (2) identifying information for Google Accounts associated with the responsive Location History data.

### Initial Search Parameters

- Date: August 25, 2020
- Time Period: 11:37 PM to 11:59 PM (CST)
- Target Location: Geographical area identified as:  
42.577441, -87.832047; 42.577747, -87.832045; 42.577747, -87.831655;  
42.577441, -87.831655

Also approximately depicted using the following image:



Google is further ordered to disclose the above information to the Government within 10 days of the issuance of this warrant.



## **ATTACHMENT B**

### **Particular Items to Be Seized**

#### **I. Information to be disclosed by Google**

The information described in Attachment A, via the following process:

1. Google shall query location history data based on the Initial Search Parameters specified in Attachment A. For each location point recorded within the Initial Search Parameters, and for each location point recorded outside the Initial Search Parameters where the margin of error (*i.e.*, “maps display radius”) would permit the device to be located within the Initial Search Parameters, Google shall produce to the government information specifying the corresponding unique device ID, timestamp, location coordinates, display radius, and data source, if available (the “Device List”).

2. The government shall review the Device List and identify to Google the devices about which it seeks to obtain Google account identifier and basic subscriber information. The government may, at its discretion, identify a subset of the devices.

3. Google shall disclose to the government identifying information, as defined in 18 U.S.C. § 2703(c)(2), for the Google Accounts associated with each device ID appearing on the Device List about which the government inquires.

#### **II. Information to Be Seized**

All information described above in Section I that constitutes evidence of violations of 18 U.S.C. § 844(i) (arson), involving unknown persons.